

WHAT IS CLAIMED IS:

1 1. A head drum assembly mounting structure on a deck of a tape recorder, comprising:
2 a head drum assembly including an upper drum, a lower drum, and a drum boss, all of which
3 being connected on a same shaft;
4 a drum base;
5 a fixing means for fixing said drum base to said drum boss;
6 wherein the radius of said drum boss is smaller than that of said lower drum and at least one
7 hole is formed on said drum boss for receiving said fixing means.

1 2. A head drum assembly mounting structure of claim 1, further comprising:
2 a positioning means for determining relative position of said drum boss with said drum base.

1 3. A head drum assembly mounting structure of claim 1, wherein said drum base is
2 formed with at least one hole for receiving said fixing means, said at least one hole formed on said
3 drum base corresponds to at least one hole formed on said drum boss.

1 4. A head drum assembly mounting structure of claim 1, wherein said drum base is
2 formed with at least one hole for receiving said fixing means, said at least one of said hole formed
3 on said drum boss and at least one of said hole formed on said drum base are aligned with each other
4 by a positioning means.

1 5. A head drum assembly mounting structure of claim 2, wherein said positioning means
2 comprises:
3 a cut out portion formed on said drum boss;
4 a protrusion formed on the drum base to be inserted into said cut out portion.

1 6. A head drum assembly mounting structure of claim 5, wherein said cut out portion
2 is a hole formed on said drum boss and said protrusion is a positioning pin formed on the drum base
3 to be inserted into said hole.

1 7. A head drum assembly mounting structure of claim 2, wherein said positioning means
2 comprises:
3 a protrusion formed on the drum boss for insertion into a cut out formed on said drum base
4 for receiving said protrusion.

1 8. A head drum assembly mounting structure of claim 7, wherein said protrusion is a
2 shaft.

1 9. A head drum assembly mounting structure of claim 1, wherein the drum base is
2 integrally formed with a main base.

1 10. A head drum assembly mounting structure of claim 1, wherein the positioning means
2 comprises:

3 at least one locking hole formed in a lower portion of said drum boss; and
4 a hook pin formed on said drum base corresponding to the locking hole for being
5 complementarily connected with the locking hole.

1 11. A head drum assembly mounting structure of claim 10, further comprising a pair of
2 locking ends branched from a leading end of the hook pin and elastically biased in opposite
3 directions, and a locking portion extending from an inner circumference of the locking hole to be
4 locked with the pair of locking ends.

1 12. A head drum assembly mounting structure on a deck of a tape recorder, comprising:
2 a head drum assembly including an upper drum, a lower drum, and a drum boss, all of which
3 being connected on a same shaft;
4 a drum base slanted on a main base of a deck; and
5 a fixing means for fixing said drum base to said drum boss;
6 wherein the radius of said drum boss is smaller than that of said lower drum.

1 13. A head drum assembly mounting structure of claim 12, further comprising:
2 a positioning means for determining relative position of said drum boss with said drum base.

1 14. A head drum assembly mounting structure of claim 12, wherein said drum base is
2 formed with at least one hole for receiving said fixing means, said at least one hole formed on said
3 drum base corresponds to at least one hole formed on said drum boss.

1 15. A head drum assembly mounting structure of claim 12, wherein said drum base is
2 formed with at least one hole for receiving said fixing means, said at least one of said hole formed
3 on said drum boss and at least one of said hole formed on said drum base are aligned with each other
4 by a positioning means.

1 16. A head drum assembly mounting structure of claim 13, wherein said positioning
2 means comprises:
3 a cut out portion formed on said drum boss;
4 a protrusion formed on the drum base to be inserted into said cut out portion.

1 17. A head drum assembly mounting structure of claim 16, wherein said cut out portion
2 is a hole formed on said drum boss and said protrusion is a positioning pin formed on the drum base
3 to be inserted into said hole.

1 18. A head drum assembly mounting structure of claim 13, wherein said positioning
2 means comprises:
3 a protrusion formed on the drum boss for insertion into a cut out formed on said drum base

4 for receiving said protrusion.

1 19. A head drum assembly mounting structure of claim 18, wherein said protrusion is
2 a shaft.

1 20. A head drum assembly mounting structure of claim 12, wherein the drum base is
2 integrally formed with a main base.

1 21. A head drum assembly mounting structure of claim 12, wherein the positioning means
2 comprises:
3 at least one locking hole formed in a lower portion of said drum boss; and
4 a hook pin formed on said drum base corresponding to the locking hole for being
5 complementarily connected with the locking hole.

1 22. A head drum assembly mounting structure of claim 21, further comprising a pair of
2 locking ends branched from a leading end of the hook pin and elastically biased in opposite
3 directions, and a locking portion extending from an inner circumference of the locking hole to be
4 locked with the pair of locking ends.

1 23. A head drum assembly mounting structure on a deck of a tape recorder, comprising:
2 a head drum assembly including an upper drum and a lower drum, both of which being

3 connected on a same shaft;

4 a drum base portion which is integrally formed on a main base;

5 a slant boss formed on a lower portion of the lower drum for supporting the head drum
6 assembly to be slanted with respect to said main base of the deck; and

7 fixing means for fixing said drum base to said drum boss;

8 wherein the radius of said drum boss is smaller than that of said lower drum and at least one
9 hole is formed on said drum boss for receiving said fixing means.

1 24. A head drum assembly mounting structure of claim 23, further comprising:

2 a positioning means for determining a relative position of said drum boss with said drum
3 base.

1 25. A head drum assembly mounting structure of claim 23, wherein said drum base
2 portion is formed with at least one hole for receiving said fixing means, said at least one hole formed
3 on said drum base portion corresponds to at least one hole formed on said drum boss.

1 26. A head drum assembly mounting structure of claim 23, wherein said drum base is
2 formed with at least one hole for receiving said fixing means, said at least one of said hole formed
3 on said drum boss and at least one of said hole formed on said drum base are aligned with each other
4 by a positioning means.

1 27. A head drum assembly mounting structure of claim 24, wherein said positioning
2 means comprises:

3 a cut out portion formed on said drum boss;

4 a protrusion formed on the drum base portion to be inserted into said cut out portion.

1 28. A head drum assembly mounting structure of claim 27, wherein said cut out portion
2 is a hole formed on said drum boss and said protrusion is a positioning pin formed on the drum base
3 to be inserted into said hole.

1 29. A head drum assembly mounting structure of claim 24, wherein said positioning
2 means further comprises:

3 a protrusion formed on the drum boss for insertion into a cut out formed on said drum base
4 portion for receiving said protrusion.

1 30. A head drum assembly mounting structure of claim 29, wherein said protrusion is a
2 shaft.

1 31. A head drum assembly mounting structure of claim 24, wherein the positioning means
2 comprises:

3 a plurality of positioning holes formed in the drum base portion; and

4 a plurality of protrusion from a lower portion of the lower drum by different lengths,

5 corresponding to the plurality of positioning holes, to be inserted into the plurality of positioning
6 holes.

1 32. A head drum assembly mounting structure on a deck of a tape recorder, comprising:
2 a head drum assembly including an upper drum, a lower drum, and a drum boss, all of which
3 being connected on a same shaft;
4 a drum base;
5 a fixing means for fixing said drum base to said drum boss;
6 wherein the radius of said drum boss is smaller than that of said lower drum.

1 33. A head drum assembly mounting structure of claim 32, further comprising:
2 a positioning means for determining relative position of said drum boss with said drum base.

1 34. A head drum assembly mounting structure of claim 32, wherein said drum base is
2 formed with at least one hole for receiving said fixing means, said at least one hole formed on said
3 drum base corresponds to at least one hole formed on said drum boss.

1 35. A head drum assembly mounting structure of claim 32, wherein said drum base is
2 formed with at least one hole for receiving said fixing means, said at least one of said hole formed
3 on said drum boss and at least one of said hole formed on said drum base are aligned with each other
4 by a positioning means.

1 36. A head drum assembly mounting structure of claim 33, wherein said positioning
2 means comprises:

3 a cut out portion formed on said drum boss;

4 a protrusion formed on the drum base to be inserted into said cut out portion.

1 37. A head drum assembly mounting structure of claim 36, wherein said cut out portion
2 is a hole formed on said drum boss and said protrusion is a positioning pin formed on the drum base
3 to be inserted into said hole.

1 38. A head drum assembly mounting structure of claim 33, wherein said positioning
2 means comprises:

3 a protrusion formed on the drum boss for insertion into a cut out formed on said drum base
4 for receiving said protrusion.

1 39. A head drum assembly mounting structure of claim 38, wherein said protrusion is
2 a shaft.

1 40. A head drum assembly mounting structure of claim 32, wherein the drum base is
2 integrally formed with a main base.

1 41. A head drum assembly mounting structure of claim 32, wherein the positioning means
2 comprises:

3 at least one locking hole formed in a lower portion of said drum boss; and

4 a hook pin formed on said drum base corresponding to the locking hole for being
5 complementarily connected with the locking hole.

1 42. A head drum assembly mounting structure of claim 41, further comprising a pair of
2 locking ends branched from a leading end of the hook pin and elastically biased in opposite
3 directions, and a locking portion extending from an inner circumference of the locking hole to be
4 locked with the pair of locking ends.